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Hull & Goole Port Health Authority

ANNUAL REPORT

OF THE

Medical Officer of Health

FOR

1947

NICOLAS GEBBIE M.D., D.P.M., D.P.H.,
Medical Officer of Health.

Hull & Goole Port Health Authority

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HULL AND GOOLE PORT HEALTH AUTHORITY

Constituted by an Order of the Local Government Board, dated 11th June, 1887.

Members Elected by the Corporation of Kingston upon Hull

ALDERMAN A. STARK (*Chairman*)
ALDERMAN R. E. SMITH
COUNCILLOR H. HARRISON

Members Elected by the Goole Borough Council

ALDERMAN E. JOHNSON (*Deputy-Chairman*)
ALDERMAN E. CREEK

NICOLAS GEBBIE, M.D., D.P.M., D.P.H., *Port Medical Officer of Health*

A. J. W. HARDING, Cert. Royal San. Inst., *Senior Port Health Inspector*

Offices of the Authority—

9 PIER STREET, KINGSTON UPON HULL

9 PIER STREET,
HULL.

To the Chairman and Members of the
Hull and Goole Port Health Authority.

GENTLEMEN,

I have the honour to submit the Report of the Port Medical Officer of Health of the Hull and Goole Port Health Authority for the year ended 31st December, 1947.

During the year the number of ships entering the Ports of Hull and Goole continued to increase and there was also an increase in the number of alien passengers entering the district, both in regard to general traffic and, in particular, due to the arrival in the Port of Hull of 16,368 displaced persons.

The investigation of rat infestation of ships continued to receive the attention of the Authority's staff and measures for the control of rodents on ships and shore were pursued continuously throughout the year.

In the Annual Report for 1946, the occurrence of cases of Weil's disease was noted. Throughout 1947, intensive measures for the destruction of the rat population on the fish dock were carried out by the London & North Eastern Railway Co., and only one case of Weil's disease was noted in a fish-worker. I would like to take this opportunity of expressing my appreciation of the efforts of the London & North Eastern Railway in maintaining the preventive measures against this disease.

The decline in the rat population on board ships noted in the Annual Report for 1946 continued ; this is reflected in the decrease in the number of Deratisation Certificates and the increase in the number of Deratisation Exemption Certificates issued.

I would express my appreciation of the co-operation and assistance given by my colleagues, the Clerk, the Treasurer, and Analyst to the Authority.

My thanks are also tendered to H.M. Collector of Customs and his Officers, especially the Waterguard ; to H.M. Inspector (Home Office—Aliens Branch) and his staff ; to the Pilots and Dock Masters, and to the Owners, Agents and Masters of vessels for their cordial co-operation with the Officers of the Authority.

I am,

Your obedient Servant,

NICOLAS GEBBIE,
Port Medical Officer of Health.

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REPORT.

Jurisdiction of Port.

There has been no alteration in the definition of the limits of jurisdiction of the Port Health Authority.

Amount of Shipping entering the Port during the year.

During 1947, 8,427 vessels entered the Ports of Hull and Goole with a total net tonnage of 5,161,461.

In the year under review, 402 ships were boarded by the Medical Officers of the Authority; this shows an increase of 119 when compared with the figure for 1946.

The Port Health Inspectors visited 4,415 vessels, on 798 of which sanitary defects were discovered; 376 of these were rectified. In 1946, the figures were respectively 4,310, 735 and 394. Details of this work will be found in Appendix 1, pages 35-36.

HULL

TABLE A

	Number	Tonnage	Number Inspected		Number reported to be defective	Number of vess'ls on which defects were remedied	Number of vessels on which defects were found and reported to Ministry of Transport Surveyors	Number of vess'ls rep'td as having, or having had, during the voyage infectious disease on board.
			By the Medical Officer of Health	By the Sanitary Insp'ctor				
FOREIGN—								
Steamers . .	3,197	3,700,183	363	1,270	340	210	12	16
Motor* . .			36	439	113	38	2	2
Sailing . .			—	—	—	—	—	—
Fishing . .	1,700	275,080	3	624	66	21	30	—
Total Foreign	4,897	3,975,263	402	2,333	519	269	44	18
COASTWISE—								
Steamers . .	716	443,845	—	475	90	52	9	2
Motor* . .	994	202,387	—	549	54	8	5	—
Sailing . .	6	751	—	2	—	—	—	—
Fishing . .	NotAv'ble	—	—	12	3	—	—	—
Total Coastwise	1,716	646,983	—	1,038	147	60	14	2
Total Foreign and Coastwise	6,613	4,622,246	402	3,371	666	329	58	20

* Includes 1,071 Danish Fishing Vessels which were not inspected.

GOOLE

	Number	Tonnage	Number Inspected		Number reported to be defective	Number of vess'ls on which defects were remedied	Number of vessels on which defects were found and reported to Ministry of Transport Surveyors	Number of vess'ls rep'td as having, or having had, during the voyage infectious disease on board.
			By the Medical Officer Health of	By the Sanitary Insp'ctor				
FOREIGN—								
Steamers . .	518	151,936	—	185	24	13	2	1
Motor* . .			—	150	43	4	—	—
Sailing . .			—	—	—	—	—	—
Fishing . .	—	—	—	—	—	—	—	—
Total Foreign	518	151,936	—	335	67	17	2	1
COASTWISE—								
Steamers . .	1,296	387,279	—	341	32	22	2	1
Motor* . .			—	367	33	8	2	—
Sailing . .			—	1	—	—	—	—
Fishing . .	—	—	—	—	—	—	—	—
Total Coastwise	1,296	387,279	—	709	65	30	4	—
Total Foreign and Coastwise	1,814	539,215	—	1,044	132	47	6	1
Total Foreign & Coastwise, Hull and Goole . .	8,427	5,161,461	402	4,415	798	376	64	21

* Includes mechanically propelled vessels other than steamers.

NOTE.—Sixty-nine informal notices were served on Masters and Officers in charge of vessels at the Ports of Hull and Goole respecting defects and nuisances on board.

CHARACTER OF TRADE OF PORT

Passenger Traffic

During 1947, 45,467 passengers entered or departed from the Ports of Hull and Goole. These passengers came chiefly from the continent and included 16,368 Displaced Persons. A considerable number of aliens came to take up employment in this country under permits issued by the Ministry of Labour.

The number of aliens entering the district through Goole during the year was 79.

TABLE B

HULL Passenger Traffic during 1947

No. of Passengers.		1st Class	2nd Class	3rd Class	Trans-migrants.	Total.
Inwards	Aliens ..	20,598			—	31,437
	British..	10,839			—	
Outwards	Aliens ..	3,717			—	13,347
	British..	9,630			—	

Total Passengers, Inwards and Outwards 44,784

GOOLE

No. of Passengers.		1st Class	2nd Class	3rd Class	Trans-migrants	Total.
Inwards	Aliens ..	79			—	245
	British..	166			—	
Outwards	Aliens ..	102			—	438
	British..	336			—	

Total Passengers, Inwards and Outwards 683

Figures for Table B were supplied by H.M. District Inspector (Home Office—Aliens Branch).

Cargo Traffic, including Foreign Countries from which vessels arrive

The chief imports of Hull were :—

Butter, Cheese, Margarine and Condensed Milk from Holland, Denmark, New Zealand and Australia.

Eggs from Denmark.

Oil producing Seeds from West Africa, India and the Argentine.

Mineral Oils from Mexico, U.S.A. and Persian Gulf.

Wool from Australia and New Zealand.

Fruit and Vegetables from Spain, Italy, Holland, Belgium, Jaffa, Canary Islands, U.S.A., Australia, New Zealand and South Africa.

Wheat from the Argentine, Australia, North and South America and Canada.

Paper and Pulp from Norway and Sweden.

Straw Boards from Holland.

Timber from the Baltic, West Africa and U.S.A.

Fish from the North Sea, Iceland and Norway.

Bacon from Denmark.

Tanning Materials from India.

Dried Hides from Argentine.

Copal Resin from West Coast of Africa.

Wines from Spain, Portugal, France, Italy and Australia.

Onions from Spain, Portugal and Egypt.

Coastwise Trade with Aberdeen, Leith, Tyne Ports, Sunderland, Tees Ports, Grimsby, Wisbech, King's Lynn and London.

Inland Waterways :—Aire and Calder Navigation trading with Leeds, Bradford, Halifax, Castleford, Sheffield, Thorne, Doncaster, Selby, Brighouse, Barnsley, Wakefield, Huddersfield and Goole.

Trent Navigation Company trading with Newark, Nottingham, Leicester, Nuneaton, Gainsborough and Loughborough.

The chief exports from Hull were Cotton and Woollen manufactured goods, Chemicals, Dyes and Colours, Metals, Vehicles, Locomotives and Motor Cars.

A proportion of the trade of Hull is carried on with India, West Africa, Egypt and the Argentine. In these countries Plague is endemic or epidemic from time to time, and thus the loading ports come into the category of " Infected Ports."

GOOLE

By reason of the prevailing conditions the export and import trade of Goole has been considerably restricted. At the moment the trade is chiefly coastwise in character, but the ships are gradually returning to the continental trade routes.

Imports :—Dairy Produce, Margarine, Cotton Yarn, Hair, Leather and Machinery.

Exports :—Cotton Yarn and Manufactured Cotton Goods, Woollens, Machinery, Metals, Chemicals, China and Earthenware.

MEDICAL INSPECTION OF ALIENS.

Annual return by the Medical Inspector of Aliens for the year ended 31st December, 1947.

				Certificates Issued					
	Total	Number inspected by the Medical Inspector	Number subjected to detailed examination by the Medical Inspector	Lunatic Idiot or M.D.	Undesirable for Medical Reasons	Physically Incapacitated	Suffering from acute Infectious Disease	Landing necessary for adequate Medical Examination	Transmigrants
				(*a*)	(*b*)	(*c*)	(*d*)	(*e*)	
(*a*) Total number of Aliens landing at the Port	20,677	3,071	698	—	—	—	—	—	—
(*b*) Aliens refused permission to land by Immigration Officer	49	—	—	—	—	—	—	—	—
(*c*) Transmigrants	—	—	—	—	—	—	—	—	—
Total Aliens arriving at the Port	20,726	3,071	698	—	—	—	—	—	—

Total number of vessels carrying Alien Passengers	515
Number of vessels dealt with by the Medical Inspector	216

SOURCE OF WATER SUPPLY.

For the Port

	Source of Water
St. Andrew's Dock	L.N.E.R. supply
Albert and Sir Wm. Wright Docks	do.
Humber Dock	Hull Corporation supply
Victoria Dock	do.
Alexandra Dock	do.
King George Dock	do.
Saltend Jetty, No. 1	do.
,, ,, No. 2	do.
Goole Docks	Goole Borough Council supply

The water, which is very pure, is derived from deep wells; its hardness is just over twenty parts per 100,000, about six being permanent.

For Shipping

The water supplied to ships is identical with that of the City and is delivered either by means of water boats or by hydrants situated on the dock-side.

Number of Water Boats and their Sanitary Condition

Docks	Number of Boats	Capacities in Tons
St. Andrew's	3	121, 140, 92
Albert and Sir Wm. Wright ..	2	167, 50
Humber	1	65
Victoria	1	36
Alexandra	5	60, 50, 50, 50, 42
Goole	2	60, 20

These boats are inspected at frequent intervals by the Authority's Inspectors, who report immediately any conditions which require attention. The vessels are cleaned out periodically and the tanks cement-washed. In addition to these measures samples are taken, from time to time, for chemical and bacteriological examination.

Water Examinations

Fifty-four water samples obtained from vessels and water-boats were examined.

(*a*) Chemical :—

Waters	Total	Satisfactory	Unsatisfactory
From ships and water-boats in docks at Hull	54	52	2

The Port Analyst reports :—

> "During the year, 54 samples of drinking water from ships lying in the Hull Docks were examined chemically and all except two, which contained objectionable animal matter, were passed as satisfactory. Two of these samples of water were also examined bacteriologically, with satisfactory results."

(*b*) bacteriological :—

All the samples, with two exceptions, were examined bacteriologically by the Medical Staff under the supervision of the Deputy Port Medical Officer of Health.

Where the water samples were considered to be unsatisfactory, as the result of the chemical or bacteriological findings, instructions were issued for the water tanks to be cleansed and cement-washed and refilled with fresh water at this port.

PORT HEALTH REGULATIONS, 1933 & 1945.

During the year 16 cases of infectious diseases were found on vessels arriving at the port ; all of these were members of crews.

The cases were as follows :—Malaria 5, tuberculosis 3, pneumonia 4, dysentry 1, enteric fever 1, mumps 1 and acute anterior poliomyelitis 1.

Of the 17 cases of infectious disease occurring on vessels during the voyage but disposed of prior to arrival, 11 were cases of malaria.

No case or suspected case of human plague, cholera, yellow fever or small-pox occurred within the area of the Authority during 1947.

Details of cases of infectious sickness landed from vessels are shown in Table C, page 18, and in Table D, page 18, particulars of cases of infectious sickness occurring on vessels during the voyage but disposed of prior to arrival.

Appendix 2 (pages 37-39) gives a monthly return of the ships boarded by Medical Officers and their ports of origin.

Details of cases of infectious sickness occurring on vessels during the voyage to Hull or Goole will be found in Appendix 4 (pages 41-42).

WEIL'S DISEASE

During the year one further case of this disease occurred in a fish-dock worker. He was admitted to hospital and made a good recovery.

In the Annual Report for 1946, it was mentioned that, following the occurrence in that year of seven cases of Weil's Disease, six of which occurred in fish-dock workers, the L.N.E.R. intensified their campaign against the rodents infesting the fish dock.

From figures supplied by the L.N.E.R., the total number of rats destroyed by their operatives by means of poison and trapping was 1,057.

In addition, the Authority's rodent searchers trapped a total of sixty-three rats. Of this latter number, twenty-eight rats were examined microscopically for the presence of leptospirae. The results were negative in every case.

Only eight rats of the twenty-eight examined were adult *Rattus norvegicus*, the remainder consisted of specimens of *Rattus rattus* and immature *Rattus norvegicus*.

The measures taken to carry out the provisions of the Port Health Regulations, 1933 and 1945, were fully described in the report for 1946. These remain unaltered and in consequence have been omitted from this report.

TABLE C

Cases of Infectious Sickness landed from Vessels

Disease	No. of Cases during the Year		No. of vessels concerned	Average No. of Cases for previous 5 years
	Passengers	Crew		
Malaria	—	5	3	13·2
Pneumonia	—	4	4	1·6
Pulmonary Tuberculosis	—	3	3	1·2
Dysentery	—	1	1	1·0
Enteric Fever ..	—	1	1	·4
Mumps	—	1	1	·2
Acute Anterior Poliomyelitis ..	—	1	1	·2
Scarlet Fever ..	—	—	—	·6
Rubella	—	—	—	1·0
Chicken-pox ..	—	—	—	1·0
Measles	—	—	—	·6
Diphtheria	—	—	—	1·0
Cerebro-spinal Meningitis ..	—	—	—	·2

TABLE D

Cases of Infectious Sickness occurring on vessels during the voyage but disposed of prior to arrival

Disease	No. of Cases during the Year		No. of vessels concerned	Average No. of Cases for Previous 5 Years
	Passengers	Crew		
Malaria	—	11	5	41·4
Diphtheria	—	3	2	1·2
Enteric Fever ..	—	1	1	·8
Mumps	—	1	1	·2
Dysentery	—	1	1	·2
Small-pox	—	—	—	·2
Chicken-pox ..	—	—	—	1·0
Pulmonary Tuberculosis	—	—	—	·4

MEASURES AGAINST RODENTS

STEPS TAKEN FOR DETECTION OF RODENT PLAGUE

(*a*) On Ships in the Port

The Authority's Rodent Searchers continue to trap vessels from Infected Areas and on all other ships where there is evidence of a rat population.

All rats trapped or found dead on board are brought to the laboratory, where a proportion of those trapped and all found dead are examined for the presence of disease.

(*b*) On quays, wharves, warehouses, &c., in the vicinity of the Port

Although the jurisdiction of the Authority does not extend to the neighbouring quays, wharves, warehouses, etc., the rat catchers of the Railway Executive (North Eastern Region), from time to time submit rats which have been caught in their warehouses for bacteriological examination. These are examined and smears are taken from the spleens of all specimens submitted.

Table F (page 21) gives details of the rats caught month by month.

MEASURES TAKEN TO PREVENT THE PASSAGE OF RATS BETWEEN SHIPS AND THE SHORE

All ships from " Infected Ports " are required to place efficient rat guards on all mooring ropes to prevent the passage of rats between ships and the shore. The Port Health Inspectors pay daily visits to ships to see that this order is carried out.

METHODS OF DERATISATION

Ships.—Two methods of rat destruction were used at this port during the year : (1) Fumigation by Hydrogen Cyanide and (2) Trapping. Poisoning was not used as a means of deratisation.

Particulars of the work undertaken during the year are shown in Tables G and H (pages 22-23).

Premises in the Vicinity of Docks and Quays.—Trapping and poisoning are the only methods used by the rat catchers employed by the Railway Executive (North Eastern Region). Details of this work are given in Table F (page 21).

MEASURES TAKEN FOR THE DETECTION OF RAT PREVALENCE IN SHIPS AND ON SHORE.

The Authority's Rodent Searchers board all vessels from "Infected Areas" and form an estimate of the rat prevalence from a search of the ship for excreta, runs, gnawing, nests, damage to cargo, or any other evidence of the presence of rats. Where evidence of recent rat infestation is found traps are set to confirm the findings. Any other vessel is fully examined by the Rodent Searchers where, from information supplied by the crew, foremen stevedores, or the Port Health Inspectors, the presence of rats is suspected.

The Inspectors also pay daily visits to all ships from "Infected Areas" and in the normal course of their duties ascertain if there is any evidence of rats on board.

RAT-PROOFING

(a) To what extent are docks, wharves, warehouses, &c., rat-proof?

The Hull Docks and Warehouses are :—

Name of Dock	Year Opened	Area in Acres	Number of Warehouses
Humber	1809	7¼	2
Prince's	1829	6	2
Railway	1846	2¾	4
Victoria (and Basins)	1850	24	7
Albert	1869	24½	10
William Wright	1880	5¾	2
St. Andrew's (and Extension) ..	1883	19	—
Timber Ponds, Nos. 1 and 2 and No. 2 Extension	1883	39¾	—
Alexandra (and Extension) ..	1885	53½	12
King George	1914	53	6 and grain silo.
Saltend Oil Jetty, No. 1. ..	1914	—	—
,, ,, ,, No. 2 ..	1928	—	—

(b) Action taken to extend rat-proofing

(1) *In ships.*—All ships are visited by an Inspector, and where there is evidence of gnawing in storerooms or food-lockers, instructions are given for their repair in order to render them as rat-proof as possible.

(2) *On shore.*—During the year under review there has been no occasion to complain of the scavenging of the Dock Estates, which, from almost daily observation, appears to be carried out in a fairly satisfactory manner.

TABLE E

Rats destroyed during the year

(1) On Vessels

Number of Rats	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total in year
Black Rats	86	81	49	17	19	10	90	38	105	59	51	39	644
Brown Rats	—	—	—	—	—	—	—	—	—	—	—	—	—
Species not recorded	—	—	—	—	—	—	—	—	—	—	—	—	—
Rats examined . .	14	14	2	2	4	3	20	12	18	25	17	6	137
Rats infected with Plague	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE F

(2) In Docks, Quays, Wharves and Warehouses

Number of Rats	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total* in year
Black Rats	142	78	97	56	73	56	64	53	55	51	40	36	801
Brown Rats	149	80	13	81	191	124	38	179	112	85	131	85	1268
Species not recorded	—	—	—	—	—	—	—	—	—	—	—	—	—
Rats examined . .	—	1	—	—	—	3	1	7	3	—	2	—	17
Rats infected with Plague	—	—	—	—	—	—	—	—	—	—	—	—	—

* The above rats were caught by Rat Catchers employed by the Railway Executive (North Eastern Region) with the exception of 8 black rats and four brown rats which were caught by the Authority's Rodent Searchers.

TABLE G

Measures of Rat Destruction on Plague "infected" or "suspected" Vessels or Vessels from plague infected Ports arriving in the Port of Hull during the year

Total Number of such Vessels arriving	Number of such Vessels fumigated by S.O.2.	Number of Rats killed	Number of such Vessels fumigated by H.C.N.	Number of Rats killed	Number of such Vessels on which trapping, poisoning, &c., were employed	Number of Rats killed	Number of such Vessels on which measures of Rat destruction were not carried out
238	—	—	†23	316	124	404	111

† On 20 of these vessels trapping was carried out.

TABLE H

Deratisation Certificates and Deratisation Exemption Certificates issued during the year

Net Tonnage	No. of Ships	No. of Deratisation Certificates issued					No. of De-ratisation Exemption Certificates issued	Total Certificates issued
		After fumigation with			After Trapping, Poisoning, &c.	Total		
		†H.C.N.	Sulphur	H.C.N. & Sulphur				
Ships up to 300 tons	130	—	—	—	—	—	130	130
,, from 301 tons to 1,000 tons ..	122	4	—	—	2	6	116	122
,, from 1,001 tons to 3,000 tons ..	71	15	—	—	5	20	51	71
,, from 3,001 tons to 10,000 tons..	101	20	—	—	5	25	76	101
,, over 10,000 tons	—	—	—	—	—	—	—	—
TOTALS	424	39	—	—	12	51	373	424

† 34 vessels were fumigated by liquified hydrogen cyanide, and 5 by " Cyanosorb."

HYGIENE OF CREWS' SPACES

TABLE J

Classification of Nuisances

Nationality of Vessels	Number inspected during 1947	Defects of original construction.	Structural defects through wear and tear	Dirt, vermin and other conditions prejudicial to health
British.. ..	3,585	242*	786	1,774
Foreign ..	1,232	574*	34	72

* 156 defects on British ships and 105 defects on those of other nations arose as a result of structural alterations.

On the 13th February, certain compartments on the s.s. " Empire Conforth " were fumigated with Hydrogen Cyanide (" Cyanosorb ") for the destruction of rats. A certificate, on a local form, was issued on the completion of the operation.

On the 16th October, the crew's accommodation aft on the s.s. " Benjamin Sherburn " were treated with 4-Cide solution for the destruction of cockroaches. A certificate, on a local form, was issued on the completion of the operation.

Smoke Nuisances

Vessels lying in the docks have been watched and, where necessary, those in charge of fires on board have been cautioned and requested to be careful when firing up, so as to avoid creating a nuisance by the emission of black smoke.

Parrots (Prohibition of Import) Regulations, 1930

In accordance with the above regulations, 13 parrots, 8 budgerigars and 1 love-bird were dealt with during the year.

The effect of these regulations is to prevent the importation of parrots into this country, except in certain exceptional cases.

SHIPS' SANITARY LOG

It is a legal requirement for all ships registered in the United States to keep on board a sanitary log. The advantages accruing from this measure are obvious and of benefit to seafaring personnel and Port Health Officers alike.

Entries are made by Port Health Inspectors of insanitary conditions found on board and the Chief Officer notes the steps taken to carry out the Inspector's recommendations. In the case of vessels engaged in foreign trade, the Chief Officer must complete all entries in the log before the vessel returns to a U.S.A. port. In the case of vessels engaged in coastwise trade, the Chief Officer must complete his section of the log within 60 days of the last entry by a Port Health Inspector. All reports by the Chief Officer must be countersigned by the Master.

With regard to ships of British registry, Officers of Port Health Authorities are largely dependent on the verbal reports of ships' officers for information concerning the previous sanitary conditions on board. Reports obtained in this way tend to be of doubtful accuracy and difficulty is often experienced in eliciting essential facts, even as regards the findings of, and the recommendations made by the Port Health Authority at the last port of call.

The staff of the Port Health Authority, therefore, have long felt that it would be a considerable advantage if a sanitary log were kept on board each ship, the log to contain a complete record of the sanitary conditions on board, and to be available for inspection by the Officers of Port Health Authorities.

It is suggested that all insanitary conditions, e.g., nuisances, defects, infestation with vermin, &c., discovered by sanitary officers, should be entered by them in the ship's sanitary log, together with their recommendations for remedying the conditions. The steps taken to carry out these recommendations would also be entered in the log by the master, or by a responsible officer, under his supervision.

The hygienic conditions on board ship are important factors in ensuring the health of the merchant seamen, and it is felt that a material contribution would be made towards improving these conditions on ships of British registry if all such vessels were obliged to keep a sanitary log on the lines indicated above.

CERTIFICATES OF HEALTH

During the year two certificates in respect of the health of the port were issued to shipping companies in Hull and Goole respectively.

On two occasions, certificates were issued to the Ministry of Food (Imported Cereals Division) to the effect that on the date of export from Hull of a quantity of second-hand empty bags and bag tiers there were no cases of Cholera, Typhus, Plague, Yellow Fever or Small-pox in the port.

Examination of Samples of Lard Compound

On the 10th December a local firm requested the issue of a certificate to the effect that a consignment of Lard Compound for export to Venezuela was of a similar quality to that offered for sale in Great Britain.

Samples of the material were submitted to the Port Analyst who reported that the lard was of the required quality and the certificate was issued accordingly.

Dangerous Drugs (No. 3) Regulations, 1923

One application was received for a certificate to procure drugs under the provisions of the above regulations in respect of the Panamanian s.s " Garoufalia."

Canal Boats

Canal Boats inspected	407
Additional Inspections made to ascertain if notices served and verbal cautions given had been complied with	113
Total number of Inspections ..	520

The 407 canal boats inspected during the year are registered to accommodate 1,468 adult persons and 758 children, whilst 818 adults (790 males and 28 females) and 8 children were found to be occupying them.

Contraventions

Number of Canal Boats with contraventions	114
Number of contraventions	212
Number of contraventions remedied	53

In all cases where notices or letters have been addressed to the owners of the boats contravening the provisions of the Public Health Act, 1936, and the Canal Boats Regulations, the masters of the boats concerned have also been cautioned verbally.

Registration Particulars

Total number of Canal Boats on the register on 31st December, 1946	1,032
Total number of Canal Boats registered during 1947 ..	13
	1,045
Registrations cancelled during the year	8
Total ..	1,037

Particulars of registrations during 1947 :—

Boats not previously registered	6
Boats previously registered with other Authorities ..	1
Boats on which structural alterations had taken place	6
Total registrations ..	13

Copy Certificates issued in consequence of :—

Certificates lost	45

Certificates endorsed in consequence of :—

Change of ownership	26
Alteration of owner's address	37
Total endorsements ..	63

Number of Canal Boats believed to be in use :— ..	1,037
This total Includes :—	
Steam propelled boats	22
Motor propelled boats	135

Infectious Diseases

No notifications were received from Medical Practitioners of any case of Infectious Disease having occurred on canal boats in the district during the year.

Legal Proceedings

It has not been found necessary during the year to institute legal proceedings.

FOOD INSPECTION

Report of the Chief Food Inspector

Public Health (Imported Food) Regulations, 1937

Visits :—

Docks	1,024
Number of steamers of which cargoes were inspected	608
Packages landed therefrom	4,125,288
Number of detention notes issued by H.M. Customs	71

PARTICULARS OF "PROHIBITED" MEAT DISCOVERED.

NIL

PARTICULARS OF " MEAT PRODUCTS—SECOND SCHEDULE "

Where from	Description	Quantity	
Australia	Canned Meat	16,475	packages
,,	Frozen Beef	14,160	,,
,,	Quarters Beef	20,513	quarters
,,	Boned Beef	9,622	packages
,,	Boneless Beef	5,563	,,
,,	Beef Sundries	4,520	,,
,,	Poultry	720	,,
,,	Rabbits	4,055	,,
,,	Rabbit Meat	60	,,
,,	Pork Sundries	393	,,
,,	Premier Jus	47	,,
Buenos Aires	Canned Meat	120,070	,,
,,	Premier Jus	1,540	,,
,,	Tallow	770	,,
Copenhagen	Bacon	37,743	,,
,,	Gammons	1,534	,,
,,	Udders	366	,,
,,	Pigs' Feet	2,006	,,
,,	Pigs' Maws	375	,,
,,	Pigs' Chitterlings	851	,,
,,	Casings	66	,,
,,	Brawn	684	,,
,,	Kidneys	175	,,
,,	Spleens	3	,,
,,	Pork	640	,,
,,	Hog Caps	159	,,
,,	Fat Ends	184	,,
,,	Bones	73	,,

Where from	Description	Quantity
Copenhagen	Ears	302 packages
,,	Sausages	668 ,,
,,	Rinds	131 ,,
,,	Snouts	3 ,,
,,	Toes	10 ,,
,,	Blackpudding	46 ,,
,,	Knees	7 ,,
,,	Canned Pork	200 ,,
Canada	Bacon	1,169 ,,
Gothenburg	Pigs' Maws	448 ,,
,,	Udders	5 ,,
,,	Casings	16 ,,
,,	Chitterlings	556 ,,
,,	Hog Caps	94 ,,
,,	Fat Ends	83 ,,
Iceland	Casings	91 ,,
,,	Lambs	19,359 carcases
Karachi	Casings	18 packages
New York	Edible Fat	2,000 ,,
,,	Bacon	1,033 ,,
,,	Canned Meats	80,010 ,,
,,	Mutton Jus	1,699 ,,
,,	Premier Jus	1,741 ,,
New Zealand	Boneless Beef	40,096 ,,
,,	Veal	15,900 ,,
,,	Pork	16,126 ,,
,,	Mutton & Tegs	70,989 ,,
,,	Lamb	250,561 ,,
,,	Sundries	32,381 ,,
,,	Tinned Meats	11,142 ,,
,,	Boneless Mutton	9,201 ,,
,,	Sausage Skins	10 ,,
,,	Casings	23 ,,
Trieste	Canned Meat	2,091 ,,

OTHER FOOD INSPECTED

Description	Quantity
Butter	147,494 packages
Eggs	109,411 ,,
Cheese	86,560 ,,
Tinned Brislings	18,000 ,,
Tinned Milk	46,000 ,,
Pemmican	6,405 ,,
Biscuits	4,721 ,,
Raisins	187 lbs.

Description	Quantity
Candied Peel	5 lbs.
Dehydrated Apricots	345 ,,
Dehydrated Peaches	111 ,,
Coffee	18 ,,
Rice	1,156 ,,
Peppercorns	28 ,,
Wheatflakes	6 ,,
Whole Meal	624 ,,
Chocolate	281 ,,
Dried Apples	38 ,,
Arrowroot	10 ,,
Salt	210 ,,
Figs	112 ,,
Currants	388 ,,
Rolled Oats	836 ,,
Hops	4 ,,
Cornflour	36 ,,
Crispbread	3,975 ,,
Nutmeg	3 ,,
Barley	371 ,,
Beans	468 ,,
Tapioca	28 ,,
Cocoa	67 ,,
Baking Powder	12 ,,
Blancmange Powders	31 ,,
Dried Pears	29 ,,
Macaroni	16 ,,
Spaghetti	14 ,,
Beechnuts	185 ,,
Oatmeal	357 ,,
Flour	3,685 ,,
Marzipan	240 ,,
Sultanas	88 ,,
Prunes	51 ,,
Peas	2,107 ,,
Pepper	29 ,,
Shellfish	280 packages
Chicken Broth	2,137 ,,
Mixed Herbs	22 ,,
Cream Filling	1,161 ,,
Mixed Pickles	155 jars
Chutney	22 ,,
Salad Dressing	6 ,,
Piccalilli	40 ,,
Tinned Goods	9,540 tins

Description	Quantity
Meat	6,349 lbs.
Fish	1,178 ,,
Sausage	21 ,,
Tripe	543 ,,

FOODSTUFFS FOUND TO BE UNFIT

Description	Quantity
Fish	1,178 lbs.
Meat	6,349 ,,
Sausage	21 ,,
Tripe	543 ,,
Coffee	18 ,,
Dehydrated Apricots	15 ,,
Dehydrated Apples	2 ,,
Chocolate	113 ,,
Cornflour	36 ,,
Sugar	24 ,,
Salt	210 ,,
Cocoa	11 ,,
Dried Apple Rings	55 ,,
Prunes	55 ,,
Raisins	17 ,,
Sultanas	15 ,,
Currants	2 ,,
Candied Peel	2 ,,
Semolina	33 ,,
Arrowroot	10 ,,
White Pepper	5 ,,
Khaki Fruit	864 packages
Celery	328 ,,
Lettuce	9 ,,
Onions	29 ,,
Endives	121 ,,
Cauliflowers	198 ,,
Carrots	505 ,,
Radishes	58 ,,
Tomatoes	304 ,,
Grapes	2 ,,
Cherries	674 ,,
Peaches	313 ,,
Pears	3,733 ,,
Cucumbers	110 ,,
Plums	1,745 ,,
Melons	798 ,,
Bananas	1,051 bunches

Description	Quantity
Jaffas	14½ tons & 15 cases
Lemons	1 package
Grapefruit	420 lbs.
Biscuits	12 packages
Mussels	100 ,,
Herbs	22 ,,
Sauce	24 bottles
Pickled Cabbage	11 ,,
Pickles	114 ,,
Piccalilli	18 ,,
Chutney	2 ,,
Tinned Goods	7,448 tins
Bacon	171 lbs.
Ham	42 ,,
Hops	4 ,,
Oats	1 ,,

SUMMARY OF WEIGHTS OF UNSOUND FOODSTUFFS

Description	Weight			
	Tons	Cwts.	Qrs.	Lbs.
Fruit and Vegetables	122	7	1	17
Meat	3	5	1	20
Tinned Goods	6	5	3	9
Fish	0	11	1	18
Shellfish	5	0	0	0
Miscellaneous Foodstuffs	1	15	3	6

OTHER INSPECTIONS, ETC.

Nine casks Casings ex s.s. " Queda " arrived without an " Official Certificate." The Casings were detained and later released upon production of the necessary certificate.

Thirty Norwegian boats arrived with 128,952 cases herrings, of which 77 cases were found to be unfit for human consumption, and were returned to the Country of Origin.

On behalf of the Ministry of Transport and the local Salvage Officer, quantities of foodstuffs from eighty-three vessels were examined, proportions of which were found to be unfit for human consumption.

PUBLIC HEALTH (IMPORTED FOOD) REGULATIONS, 1937

The above Regulations have been in operation during the year and are working satisfactorily.

PUBLIC HEALTH (IMPORTED MILK) REGULATIONS, 1926

No action has been taken under these Regulations during the year.

PUBLIC HEALTH (PRESERVATIVES, ETC., IN FOOD) REGULATION, 1925 to 1940

Three samples of food for analysis were taken under the above Regulations during the year ; particulars are given on page 34.

SHELLFISH BEDS

There are no shellfish beds within the jurisdiction of the Authority. No action, therefore, has been taken under the Public Health (Shellfish) Regulations, 1934, or the Food and Drugs Act, 1938.

GOOLE

REPORT OF THE DEPUTY MEDICAL OFFICER OF HEALTH AT GOOLE

The under-mentioned foodstuffs were inspected during the year :—

Bacon	15,497	bales
Pigs' Feet	1,121	casks
Chitterlings	1,041	barrels
Udders	920	,,
Sausages	682	cases
Pigs' Maws	621	barrels
Hog Caps and Ends	496	,,
Mussels	190	bags
Hog Casings	188	casks
Black Puddings	170	cases

Fat Ends	121 casks
Rinds	84 casks
Ears and Snouts	60 barrels
Tripes	54 ,,
Spleens	47 casks
Earpieces	43 barrels
Pig Products	42 casks
Backbones	32 cases
Pigs' Knees	14 barrels
Bungs	10 casks

Twenty casks of Pigs' Maws were found to be unfit for human consumption.

The remainder of the food inspected at Goole was sound.

REPORT OF THE PORT ANALYST

Foodstuffs

In the table below the results of the examination of six samples of foodstuffs are set out :—

(*a*) **Chemical Examinations :**

Sample	No. Taken	Result of Examination
Danish Baking Cream	1	Consisted of a mixture of 70 per cent. fat, probably coconut fat, and 30 per cent. of sugar.
Lard Compound	2	Two products of the same manufacturer, one intended for export and the other for the home trade, were compared and found to be of equal quality.

(*b*) **Bacteriological Examinations :**

Mussels	2	Satisfactory
Oysters	1	,,

APPENDIX 1

Summary of Vessels Inspected, Foreign and Coastwise

HULL

From			
Foreign	Steamships	1,633	
	Motor Vessels	475	
	Sailing Vessels	—	
	Fishing Vessels	627	
Coastwise	Steamships	475	
	Motor Vessels	549	
	Sailing Vessels	2	
	Fishing Vessels	12	
			3,773

GOOLE

Foreign	Steamships	185	
	Motor Vessels	150	
	Sailing Vessels	—	
Coastwise	Steamships	341	
	Motor Vessels	367	
	Sailing Vessels	1	
			1,044
			4,817
	Extra Visits		2,604
	Total		7,421

Summary of Vessels Inspected, British and Foreign Owned

HULL

Owners.			
British	Steamships	1,559	
	Motor Vessels	608	
	Sailing Vessels	2	
	Fishing Vessels	617	
			2,786
Foreign	Steamships	549	
	Motor Vessels	416	
	Sailing Vessels	—	
	Fishing Vessels	22	
			987
			3,773

GOOLE

Owners.			
British	Steamships	468	
	Motor Vessels	330	
	Sailing Vessels	1	
			799
Foreign	Steamships	58	
	Motor Vessels	187	
	Sailing Vessels	—	
			245
			4,817
	Extra Visits		2,604
		Total	7,421

They were of the following nationalities :—

British	3,585
Dutch	497
Swedish	141
Norwegian	133
German	129
Finnish	69
Danish	55
American	57
Greek	29
Polish	25
Icelandic	23
French	19
Panamanian	19
Belgian	13
Russian	7
Spanish	4
Jugo-Slav	2
Faroese	5
Egyptian	2
Argentine	2
Italian	1
Total	4,817

APPENDIX 2

Medical Inspection of Vessels

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Abadan . .						1		1		1	2	2	7
Adelaide . .												1	1
Alexandria . .				1	3	1							5
Amsterdam . .												1	1
Antwerp . .			1		2	3	5	2					13
Archangel . .						1	1	2	1	1			6
Aruba								1					1
Aviles											1		1
Bahia Blanca . .												2	2
Bahrein . .			1							1		1	3
Bathurst . .		2	3	2	3	1	1			1			13
Batoum								1					1
Bombay . .	1	1					1	1			1		5
Bona					1	1					1	1	4
Brisbane . .					1			1					2
Buenos Aires . .			2		1	1	2	1	2	1		2	12
Cagliari . .								1		2			3
Cape Town . .							1		1				2
Caripito	1						1	2	1				5
Cartagena . .				1									1
Casablanca . .	1			1				1		1		1	5
Chatham, N.B.								1					1
Copenhagen . .				1			2	2	2				7
Curacao								1					1
Cuxhaven . .				2				1					3
Dakar	2		1				2		1			3	9
Danzig											1	2	3
Fredrickshavn . .								1					1
Carried forward	5	3	8	8	11	9	16	20	8	8	6	16	118

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Brought forward	5	3	8	8	11	9	16	20	8	8	6	16	118
Freetown ..	1		1		1		2	4		2		1	12
Fremantle ..	1					1	1		1	1	2	1	8
Gandia				2									2
Gdynia				1			1		1		3	1	7
Ghent							1	2					3
Gothenburg ..				1		4	4	3	1	2	2	1	18
Haifa	2	1	2	2							2	1	10
Halifax, N.S. ..		1											1
Halmstad ..							1						1
Hamburg ..	6	2	3	1	4	4	1	3	1	5	4	2	36
Helsingfors ..					1	1	1		1	1	1	1	7
Himango ..							1						1
Huelva	1	1		1	1				1	1	1		7
Jaffa												1	1
Kalmar ..								1	1				2
Karachi						1							1
Kasko									1				1
Kotka							1						1
Las Palmas ..				1	1				1				3
Lagos			1								1		2
Leningrad ..											1	1	2
Mantylouto ..							1						1
Melbourne ..						1		2				1	4
Montevideo ..	1											1	2
Montreal ..								1					1
Mozambique ..												1	1
Navlakhi ..		1		1					1			1	4
New Orleans ..					1								1
New York ..							2						2
Carried forward	17	9	15	18	20	21	33	36	18	20	23	30	260

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Brought forward	17	9	15	18	20	21	33	36	18	20	23	30	260
Oran	1					1							2
Oslo						1	3	2	2	3		1	12
Pireaus				1						1			2
Port Albany . .								1					1
Port Alma . .												1	1
Port Said . .	1						1						2
Port of Spain . .									1				1
Ras Tanurah . .										1			1
Reykjavik . .							1	1	1	1			4
Rotterdam . .	5	4	4	4	4	8	13	9	5	6	4	5	71
Safi	1												1
San Pedro de Macoris . .			1										1
Santos									1	1	1		3
Setubal						1							1
Sfax		1	1	1			1				1		5
Stockholm . .							3	2	1				6
Sydney												1	1
Szczecin . .									1				1
Takoradi . .		1	2	2	1		1						7
Tel Aviv . .			1									1	2
Thorshavn . .						1							1
Torrevieja . .								1					1
Valencia . .	2			1		1	1					1	6
Vancouver . .		1				1	1						3
Venice		1											1
Wellington, N.Z.	1												1
Extra Medical Inspections			1		1			1			1		4
Totals . .	28	17	25	27	26	35	58	53	30	33	30	40	402

APPENDIX 3

Tabulated Statement showing the Total Number of Admissions to Hospitals during 1947

Date Admission	Disease	Rating	Nationality	Name of Vessel	Where from	Date Discharged
27/3/47	Tonsillitis	Cook	British	S.S. "Baron Tweedmouth"	Ipswich	2/4/47
18/5/47	Tonsillitis	3rd Officer	American	S.S. "Newton D. Baker "	New Orleans	24/5/47
11/7/47	Malaria	Fireman	Ceylonese	S.S. " Bolton Hall "	Freetown	26/7/47
18/7/47	Dermatitis	Stewardess	British	S.S. " Tinto "	Oslo	23/7/47
30/8/47	Acute Anterior Poliomyelitis	1st Electrician	,,	S.S. " Empire Lance "	Cuxhaven	27/9/47
28/8/47	Malaria	Seamen	,,	S.S. " Godfrey B. Holt "	Freetown	4/9/47
28/8/47	Malaria	,,	,,	,, ,, ,,	,,	4/9/47
26/9/47	Malaria	,,	Norwegian	S.S. " Otteid "	Middlesbrough	1/10/47
26/8/47	Malaria	,,	,,	,,	,,	1/10/47
10/11/47	Typhoid Fever	Fireman	Spanish	S.S. " Castillo Frias "	Aviles	31/1/48

APPENDIX 4

Vessels on their Arrival on which Cases of Infectious Disease existed or had occurred during the Voyage

Date	Name of Vessel	Where from	No. of Cases	Rating	How dealt with
			DIPTHERIA		
15/1/47	S.S. " Fort Albany "	Dakar	2	Crew	Landed at Dakar
19/5/47	S.S. " Newton D. Baker "	New Orleans	1	Seaman	Landed at London
			DYSENTRY		
11/7/47	S.S. " Boltonhall "	Freetown	1	Seaman	Died ; buried at sea.
26/8/47	S.S." Mountpark "	Auckland	1	Fireman	Proceeded to his home
			ENTERIC FEVER		
8/3/47	S.S. " Empire Grey "	Buenos Aires	1	Fireman	Landed at St. Vincent.
10/11/47	S.S. " Castillo Frias "	Aviles	1	,,	Admitted to the City Hospital, Cottingham.
			MALARIA		
19/4/47	S.S. " Liberian "	Takoradi	2	Crew	Suffered during the voyage.
11/7/47	S.S. Boltonhall "	Freetown	3	,,	1 admitted to the City Hospital, Cottingham : 2 suffered during the voyage.
11/7/47	S.S. " Samyak "	Takoradi	3	,,	Suffered during the voyage
28/8/47	S.S. " Godfrey B. Holt "	Freetown	2	,,	Admitted to the Beverley Road Hospital, Hull
26/9/47	S.S. " Otteid "	Middlesbrough	2	,,	Admitted to the Beverley Road Hospital, Hull.
31/10/47	M.V. " Eastgate "	Freetown	1	Seaman	Landed at Freetown.
15/12/47	S.S. " Fort St. Joseph "	Freetown	3	Crew	Suffered during the voyage.

APPENDIX 4—*Continued*

Date	Name of Vessel	Where from	No. of Cases	Rating	How dealt with
			MUMPS		
12/3/47	S.S. " St. Rosario "	Antwerp	1	Apprentice	Proceeded to his home.
29/8/47	M.V. " Cape Alava "	New York	1	Engineer	Landed at Halifax, N.S.
			PNEUMONIA		
28/3/47	S.S. " Empire Lance "	Cuxhaven	1	H.M. Forces	Admitted to the Beverley Road Hospital, Hull.
7/6/47	S.S. " Triberg "	Vancouver	1	C. Officer	Admitted to the Anlaby Road Hospital, Hull ...
19/8/47	S.S. " Otteid "	Middlesbrough	2	Crew	Admitted to the Beverley Road Hospital, Hull.
			PULMONARY TUBERCULOSIS		
12/8/47	S.S. " Bore II "	Helsinki	1	Cook	Admitted to the Hull Royal Infirmary.
28/8/47	S.S. " St. Jessica "	Rosario	1	Greaser	Advised to procure treatment.
16/12/47	S.S. " Anne "	Tel Aviv	1	C. Engineer	Referred to the doctor to the Shipping Federation.
			POLIOMYELITIS		
30/8/47	S.S. " Empire Lance "	Cuxhaven	1	Electrician	Admitted to the City Hospital, Cottingham.

APPENDIX 5

Total No. of ships inspected	4,817
Total No. of ships with defects, including those due to dirt, vermin, etc.	798

(*a*) **At Hull**

British owned	441
Foreign owned	225

(*b*) **At Goole**

British owned	59
Foreign owned	73

(a) DEFECTS OF ORIGINAL CONSTRUCTION

BRITISH

Ventilation :—

	No. of defects	Remedied
Unventilated Forecastles	4	–
,, Cabins	4	–
,, Messrooms	4	1
,, Water Closets	23	6
,, Wash-places	9	–
,, Saloon	1	–
,, Food Lockers	4	–
,, Water Closets-Washplaces	2	–
Ventilators in an unsatisfactory position over bunks	3	1

Lighting :—

Inadequate natural lighting to Forecastles	6	–

Crews' Quarters :—

No heating to Forecastles	1	–
,, ,, ,, Cabins	5	3
No Food lockers provided	3	3
No Clothes Locker provided	1	1
Exposed anchor cable in cabin	1	–
Bilge Pump in Forecastle	1	–
Inadequate messing arrangements	1	–
Insufficient sheathing or cork dust to cabins	4	–

	No. of defects	Remedied
WATER CLOSETS :—		
W.C.'s without water supply ..	7	–
No scupper in W.C. compartment ..	1	1
Insufficient space between pedestal front and door frame opposite (8in. clearance)	1	–
Total ..	86	16

(a) **DEFECTS OF ORIGINAL CONSTRUCTION**

FOREIGN

VENTILATION :—

	No. of defects	Remedied
Unventilated Forecastles	38	–
,, Cabins	50	1
,, Messrooms	20	–
,, Water Closets ..	132	2
,, Wash-places	67	–
,, Galley-messrooms ..	43	2
,, Pail Closet compartments	23	–
,, Water Closets-Washplaces	6	–
Ventilators in an unsatisfactory position over bunks	4	–
LIGHTING :—		
Inadequate natural lighting to Cabin	1	–
CREWS' QUARTERS :—		
No heating to Forecastles	3	–
,, ,, ,, Cabin	1	–
WATER CLOSETS :—		
W.C.'s without water supply ..	81	1
Total ..	469	6

(b) STRUCTURAL DEFECTS THROUGH WEAR AND TEAR

BRITISH

	No. of defects	Remedied
Defective W.C.'s and fittings ..	183	158
,, stoves and fittings	28	21
,, side ports and glasses ..	67	63
,, radiators	39	33
,, ventilators	24	17
,, flooring	20	15
,, doors	35	27
,, bulkheads	5	4
,, shower baths	24	22
,, bunks	37	37
,, electric fans..	1	–
,, scuppers	22	18
,, rudder post gland	1	1
,, lockers	91	86
,, shell plating	3	2
,, wash-hand basins and fittings	17	14
,, and leaky overhead decks	52	48
,, central heating boiler ..	4	3
,, steam pipes	22	22
,, geysers	7	6
,, skylights	3	2
,, waste pipes	35	33
,, tank tops	6	5
,, tables	3	3
,, forms	13	13
,, hawse pipes	4	3
,, electric light fittings ..	2	2
,, fresh water supply pipes ..	4	3
,, deck lights	3	3
,, baffle to ventilator over bunk	1	1
,, fresh water pumps	4	4
,, tap to sink in messrooms ..	1	1
,, chain pipes	3	3
,, fresh water tank fittings ..	8	4
,, scupper pump	1	–
,, hot water supply	3	2
,, insulation to stove pipes ..	2	2
No door to cabin	1	1
Defective sheathing	7	7
Total ..	786	689

(b) STRUCTURAL DEFECTS THROUGH WEAR AND TEAR

FOREIGN

	No. of defects	Remedied
Defective W.C.'s and fittings ..	24	8
,, radiators	4	4
,, and leaky overhead decks..	2	1
,, door	1	1
,, locker	1	1
,, steam pipes	2	1
Total ..	34	16

(c) DIRT, VERMIN AND OTHER CONDITIONS PREJUDICIAL TO HEALTH

BRITISH

	No. of defects	Remedied
Dirty condition of forecastles.. ..	44	38
,, ,, ,, cabins	335	333
,, ,, ,, messrooms ..	91	90
,, ,, ,, galleys	3	3
,, ,, ,, wash-places ..	74	72
,, ,, ,, drying rooms ..	2	2
,, ,, ,, alleyways	7	7
,, ,, ,, calorifier	1	1
,, ,, ,, storerooms ..	3	3
Insanitary condition of water-closets	67	65
,, ,, ,, galley refuse	6	6
Verminous condition of forecastles ..	43	43
,, ,, ,, messrooms ..	166	159
,, ,, ,, cabins ..	706	643
,, ,, ,, galleys ..	53	52
,, ,, ,, pantries ..	74	73
,, ,, ,, storerooms ..	39	38
,, ,, ,, saloons ..	27	26
,, ,, ,, linen lockers	6	6
,, ,, ,, alleyways ..	2	2
,, ,, ,, wash-places	2	2
,, ,, ,, medicine locker	1	1
,, ,, ,, food lockers ..	2	2

	No. of defects	Remedied
Verminous condition of chart & wireless room ..	1	1
Deposits in fresh water tanks ..	11	11
Condensation of moisture in cabins ..	1	1
Crew quarters showing signs of rat infestation	7	7
Total ..	1,774	1,687

FOREIGN

Dirty condition of forecastles.. ..	2	2
,, ,, ,, messrooms ..	2	2
,, ,, ,, galley	1	1
,, ,, ,, wash-places ..	2	2
,, ,, ,, alleyway	1	1
Verminous condition of forecastles ..	4	4
,, ,, ,, cabins ..	32	32
,, ,, ,, saloons ..	2	2
,, ,, ,, messrooms ..	5	5
,, ,, ,, galleys ..	3	3
,, ,, ,, pantries ..	2	2
,, ,, ,, washplaces ..	3	3
Insanitary condition of water-closets	5	4
Cabins infested with mice	6	6
Messrooms infested with mice ..	2	2
Total ..	72	71

(d) DEFECTS ARISING FROM STRUCTURAL ALTERATIONS

BRITISH

VENTILATION :—

	No. of defects	Remedied
Unventilated forecastles	8	3
,, cabins	4	1
,, messrooms	14	1
,, water closets ..	49	10
,, wash-places	50	11
,, shower compartment	1	–
,, galley	1	–
,, water closet-washplace	2	–

	No. of defects	Remedied
Inadequate ventilation to cabin ..	1	1
Ventilators in an unsatisfactory position over bunks	6	4
LIGHTING :—		
Inadequate natural lighting to forecastles	3	1
,, ,, ,, messrooms	1	1
CREWS' QUARTERS :—		
No heating to cabins	2	2
Storeroom used as a wash-place ..	1	–
Inadequate heating to forecastles ..	2	2
,, ,, ,, messrooms	2	2
Exposed steam pipe..	1	–
No waste pipe to wash-hand basin ..	1	–
Inadequate drainage in wash-place	1	–
W.C. opening direct into galley-messroom	1	–
Port blanked off	1	–
WATER CLOSETS :—		
W.C.'s without water supply ..	4	–
Totals ..	156	39

FOREIGN

	No. of defects	Remedied
VENTILATION :—		
Unventilated forecastles	8	–
,, cabins	39	–
,, messrooms	7	–
,, water closets ..	19	–
,, wash-places	19	1
,, galley-messrooms ..	4	1
,, water closet-washplace	1	–
,, pail closet compartment	1	–
Ventilator in an unsatisfactory position over bunks	1	–
WATER CLOSETS :—		
W.C.'s without water supply ..	6	–
Totals ..	105	2

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